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In the Claims

1. (Currently Amended) A milking machine unit cylinder comprising:

a flexible element; and

at least one sensor element which detects a substantial weight on the flexible element to trigger a start signal for a milking process; and a rapid ventilation valve-in-communication with the sensor element.

- 2. (Previously Presented) The milking unit cylinder according to claim 1, wherein the sensor element emits a start signal as the weight on the flexible element exceeds a predetermined threshold value.
- 3. (Previously Presented) The milking unit cylinder according to claim 2, wherein the predetermined threshold value is variable.
- 4. (Previously Presented) The milking unit cylinder according to claim 1, wherein the predetermined threshold value is independent of an operating vacuum.
- 5. (Currently Amended) The milking unit cylinder according to claim 1, wherein at least one and further comprising:

a biasing element is provided disposed to move the rapid ventilation valve into a closed position.

- 6. (Currently Amended) The milking unit cylinder according to claim [[1]]5, wherein the predetermined threshold value is influenced by the biasing element.
- 7. (Previously Presented) The milking unit cylinder according to claim 1, wherein the flexible element is coupled to a movable element.
- 8. (Previously Presented) The milking unit cylinder according to claim 1, wherein the flexible element is configured as a chain.

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9. (Currently Amended) The milking unit cylinder according to claim 1, wherein the flexible element is coupled to the <u>a</u> milking unit.

- 10. (Previously Presented) The milking unit cylinder according to claim 1, wherein at least one sensor element is selected from a group of sensors consisting of: load measuring means, proximity switches, magnetic limiting switches, dry reed contact switches, expansion measuring strips, magnetic, inductive, capacitive sensors and resistance sensors and combinations thereof.
- 11. (Previously Presented) The milking unit cylinder according to claim 1, wherein at least a portion of the sensor element is mounted within the cylinder.
- 12. (Previously Presented) The milking unit cylinder according to claim 1, wherein the sensor element is contactless.
- 13. (Currently Amended) A milking unit cylinder, comprising: according to claim 1, wherein the a rapid ventilation membrane valve comprises a closing element which is movable between an open position and a closed position.
- 14. (Currently Amended) The milking unit cylinder according to claim 13 1, wherein the rapid ventilation membrane valve defines a control port and the milking unit cylinder further comprises: an air controller.
- 15. (Canceled)
- 16. (Canceled)

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17. (Currently Amended) The milking unit cylinder according to claim 13 14, wherein the rapid ventilation valve comprises:

a membrane for moving between a control port open position and a control port closing position; and and further comprising

a biasing means that biases the rapid ventilation membrane toward the control port closed position.

- 18. (Currently Amended) The milking unit cylinder according to claim 13 17, wherein the rapid ventilation membrane in the control port open position permits air to flow from defines a rapid ventilation aperture for communicating air and moving the rapid ventilation membrane to a ventilation position into the milking unit cylinder.
- 19. (Currently Amended) The milking unit cylinder according to claim 13 17, wherein the rapid ventilation membrane is disposed in the milking unit cylinder to define an interior space; and the milking unit cylinder further comprises a piston mounted in the interior space.
- 20. (Currently Amended) The milking unit cylinder according to claim 19, and further comprising a membrane control port mounted on the side of the rapid ventilation membrane that is opposite the piston.
- 21. (Currently Amended) The milking unit cylinder according to claim 20, wherein the rapid ventilation membrane can be placed in a ventilation position by applying atmospheric pressure in the interior space and by applying subpressure to the membrane control port.
- 22. (Canceled)
- 23. (Canceled)

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24. (Currently Amended) A method for automatically starting a milking process comprising the steps of:

holding a milking unit at a first position; triggering a start signal; and

rapidly ventilating a milking unit cylinder.

- 25. (Currently Amended) The method according to claim 24 and further comprising the step of lifting a the milking unit to a second position to trigger a start signal.
- 26. (Previously Presented) The method according to claim 24 wherein the step of: rapidly ventilating the milking unit cylinder comprises the step of: ventilating gas through a plurality of ventilation apertures.
- 27. (Canceled)
- 28. (Canceled)